

ABSTRACT

A pagewidth printhead chip includes a substrate that incorporates drive circuitry. A plurality of nozzle arrangements is positioned on the substrate. Each nozzle arrangement includes a static nozzle chamber structure that is positioned on the substrate to extend from the substrate and that defines part of a nozzle chamber. An active nozzle chamber structure defines an ink ejection port and is configured to define a remaining part of the nozzle chamber. The active structure is displaceable with respect to the static structure towards and away from the substrate respectively to reduce and increase a volume of the nozzle chamber so that ink in the nozzle chamber is ejected from the ink ejection port. At least two
10 actuators are connected to the drive circuitry and are operatively arranged with respect to the active structure to displace the active structure towards and away from the substrate on receipt of an actuating electrical signal from the drive circuitry. The actuators are configured and connected to the active structure to impart substantially rectilinear movement to the active structure.